

Form PTO-1449 (modified)		Atty. Docket No. MXGN:005USC2/SLH	Serial N. 09/813,444
List of Patents and Publications for Applicant's INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicant Brent Iverson <i>et al.</i>	
		Filing Date: March 20, 2001	Group: 1646
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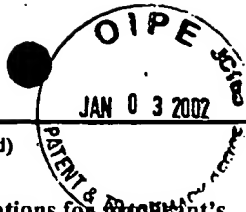
U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
TD	A1	Re. 34,606	05/10/94	Estell <i>et al.</i>			
	A2	3,791,932 ✓	2/12/74	Schuurs <i>et al.</i>	195	103.5	1/27/72
	A3	3,949,064	4/6/76	Bornstein <i>et al.</i>	424	1	10/26/73
	A4	4,034,074	07/05/77	Miles			
	A5	4,166,767	09/04/79	Kurooka <i>et al.</i>			
	A6	4,174,384	11/13/79	Ullman <i>et al.</i>	424	8	10/12/76
	A7	4,496,658	01/29/85	Kondo <i>et al.</i>			
	A8	4,596,792	6/24/86	Vyas	514	21	3/30/84
	A9	4,599,230 ✓	7/8/86	Milich <i>et al.</i>	424	89	3/9/84
	A10	4,601,903 ✓	7/22/86	Frasch	424	92	5/1/85
	A11	4,608,251 ✓	8/26/86	Mia	424	85	11/9/84
	A12	4,748,119	05/31/88	Rich <i>et al.</i>			
	A13	4,760,025	07/26/88	Estell <i>et al.</i>			
	A14	4,873,192	10/10/89	Kunkel			
	A15	4,918,162	4/90	Slamon <i>et al.</i>	530	324	
	A16	4,952,501	8/90	Jasin <i>et al.</i>	435	69.2	
	A17	4,959,312	09/25/90	Sirotkin			
	A18	5,081,030	1/92	Civin	435	240.2	
	A19	5,093,240	03/03/92	Inouye <i>et al.</i>			
	A20	5,223,409	06/29/93	Ladner <i>et al.</i>			
	A21	5,264,365 ✓	5,264,365	Georgiou <i>et al.</i>	435	252.8	11/9/90
	A22	5,348,867	09/20/94	Georgiou <i>et al.</i>			
PTD	A23	5,403,484 ✓	4/4/95	Ladner <i>et al.</i>	435	235.1	1/26/93

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PTD	A24	5,441,882	08/15/95	Estell <i>et al.</i>			
	A25	5,445,935 ✓	8/29/95	Royer	435	6	11/23/92
	A26	5,541,309 ✓	7/30/96	Prasher	536	23.2	10/28/94
	A27	5,550,045	8/96	Musters <i>et al.</i>	435	201	
	A28	5,599,231 ✓	2/4/97	Hibino <i>et al.</i>	463	29	10/31/94
	A29	5,605,793 ✓	2/25/97	Stemmer	435	6	2/17/94
	A30	5,672,490	9/97	Sessler <i>et al.</i>	435	91.1	
	A31	5,723,323	03/03/98	Kauffman <i>et al.</i>			
	A32	5,733,541	03/31/98	Taichman <i>et al.</i>			
	A33	5,744,302	4/98	Sessler <i>et al.</i>	435	6	
	A34	5,763,192	06/09/98	Kauffman <i>et al.</i>			
	A35	5,811,238 ✓	9/22/98	Stemmer <i>et al.</i>	435	6	11/30/95
	A36	5,830,696 ✓	11/3/98	Short	435	69.1	12/5/96
	A37	5,830,721 ✓	11/3/98	Stemmer <i>et al.</i>	435	172.1	2/17/95
	A38	5,843,701	12/98	Gold <i>et al.</i>	435	68.1	
	A39	5,866,344 ✓	2/2/99	Georgiou	435	7.21	5/23/95
	A40	5,939,250 ✓	8/17/99	Short	435	4	5/22/96
	A41	5,958,672 ✓	9/28/99	Short	435	4	6/3/96
	A42	5,965,408 ✓	10/12/99	Short	435	91.1	7/9/96
	A43	6,001,574 ✓	12/14/99	Short <i>et al.</i>	435	6	3/4/98
	A44	6,004,788 ✓	12/21/99	Short	435	183	7/18/95
	A45	6,015,561	1/00	Alvarez	424	155.1	
PTD	A46	6,030,779 ✓	2/29/00	Short	435	6	10/6/97

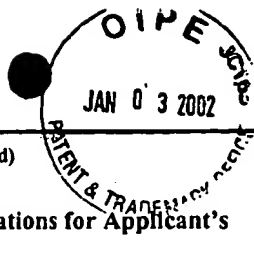
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INFORMATION DISCLOSURE STATEMENT — PTO-1449 (MODIFIED)



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PTD	A47	6,054,267	4/25/00	Short	435	6	8/2/96
	A48	6,057,103	5/2/00	Shrot	435	6	8/26/97
	A49	6,107,059	8/00	Hart	435	69.7	
	A50	6,117,679	9/12/00	Stemmer	435	440	3/25/96
	A51	6,132,970	10/17/00	Stemmer	435	6	6/19/98
	A52	6,165,793	12/26/00	Stemmer	435	440	5/8/98
	A53	6,168,919 B1	1/2/01	Short	435	6	7/17/96
	A54	6,171,820 B1	1/9/01	Short	435	69.1	2/4/99
	A55	6,174,673 B1	1/16/01	Short <i>et al.</i>	435	6	6/16/98
PTD	A56	6,180,406 B1	1/30/01	Stemmer	435	440	6/17/98

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Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
PTD	B1	EP 0285123	10/05/88	Europe			
	B2	EP 0095361	11/30/83	Europe			
PTD	B3	WO 94/26787	11/24/94	PCT			

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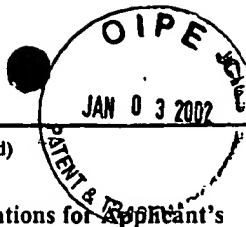
Exam. Init.	Ref. Des.	Citation
PTD	C1	Agterberg <i>et al.</i> , "Outer-membrane PhoE protein of <i>Escherichia coli</i> K-12 as an exposure vector: possibilities and limitations," <i>Gene</i> 88:37-45, 1990
PTD	C2	Aiyar and Leis, "Modification of the Megaprimer Method of PCR Mutagenesis: Improved Amplification of the Final Product," <i>BioTechniques</i> , 14(3):366, 1993.

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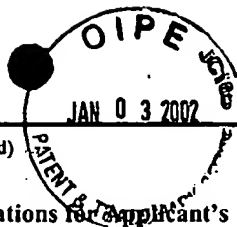
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PTD	C3	Amaravadi and King, "A rapid and efficient, nonradioactive method for screening recombinant DNA libraries," <i>BioTech.</i> , 16(1):98-103, 1994.
	C4	Baneyx and Georgiou, "In vivo degradation of secreted fusion proteins by the <i>Escherichia coli</i> outer membrane protease OmpT," <i>J. Bacteriol.</i> , 172:491-494, 1990.
	C5	Barbas and Lerner, "Combinatorial Immunoglobulin libraries on the surface of phage (Phabs): Rapid selection of antigen-specific fabs," <i>Methods: A companion to Methods in Enzymology</i> , 2(2):119-124, 1991.
	C6	Barbas III <i>et al.</i> , "Assembly of combinatorial antibody libraries on phage surfaces: The gene III site," <i>Proc. Natl. Acad. Sci. USA</i> , 88:7978-7982, September 1991.
	C7	Barbas III <i>et al.</i> , "Semisynthetic combinatorial antibody libraries: A chemical solution to the diversity problem," <i>Proc. Natl. Acad. Sci. USA</i> , 89:4457-4461, May 1992.
	C8	Barbas, "Recent advances in phage display," <i>Curr. Opin. BioTech.</i> , 4(5):526-530, 1993.
	C9	Bardwell <i>et al.</i> , "Identification of a protein required for disulfide bond formation in vivo," <i>Cell</i> , 67:581-589, 1991.
	C10	Bathurst, "Protein expression in yeast as an approach to production of recombinant malaria antigens," <i>Am. J. Trop. Med. Hyg.</i> , 50(4 Suppl):20-26, 1994.
	C11	Beher, "Correlation between the expression of an <i>Escherichia coli</i> cell surface protein and the ability of the protein to bind to lipopolysaccharide," <i>J. Bacteriol.</i> , 143(1):403-410, 1980.
	C12	Bender <i>et al.</i> , "Recombinant human antibodies: linkage of an Fab fragment from a combinatorial library to an Fc fragment for expression in mammalian cell culture," <i>Hum. Antibodies Hybridomas</i> , 4(2):74-79, 1993.
	C13	Better <i>et al.</i> , " <i>Escherichia coli</i> Secretion of an Active Chimeric Antibody Fragment," <i>Science</i> , 240:1041-1043, May 1988.
	C14	Bird <i>et al.</i> , "Single-chain antigen-binding proteins," <i>Science</i> , 242:423-426, 1988.
	C15	Blackburn <i>et al.</i> , "Electrochemiluminescence detection for development of immunoassays and DNA probe assays for clinical diagnostics," <i>Clinical Chemistry</i> , 37(9):1534-1539, 1991.
PTD	C16	Boder and Wittrup, "Yeast surface display for screening combinatorial polypeptide libraries," <i>Nat. Biotechnol.</i> , 15(6):553-557, 1997.

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PTD	C17	Bolivar <i>et al.</i> , "Construction and characterization of new cloning vehicles. II a multipurpose cloning system," <i>Gene</i> , 2:95-113, 1977.
	C18	Bosch <i>et al.</i> , "Periplasmic accumulation of truncated forms of outer-membrane PhoE protein of <i>Escherichia coli</i> K-12," <i>J. Mol. Biol.</i> , 189:449-455, 1986.
	C19	Bosch <i>et al.</i> , "The role of the carboxy-terminal membrane-spanning fragment in the biogenesis of <i>Escherichia coli</i> K12 outer membrane protein PhoE," <i>Mol Gen Genet</i> , 216:144-148, 1989.
	C20	Boss <i>et al.</i> , "Assembly of functional antibodies from immunoglobulin heavy and light chains synthesised in <i>E. Coli</i> ," <i>Nucl. Acids Res.</i> , 12(9):3791-3807, 1984.
	C21	Breitling <i>et al.</i> , "A surface expression vector for antibody screening," <i>Gene</i> , 104:147-153, 1991.
	C22	Breyer and Sauer, "Mutational analysis of the fine specificity of binding of monoclonal antibody 51F to λ repressor," <i>J. Biol. Chem.</i> , 264(22):13355-13360, 1989.
	C23	Brown, "Engineered iron oxide-adhesion mutants of the <i>Escherichia coli</i> phage λ receptor," <i>Proc. Natl. Acad. Sci. USA</i> , 89:8651-8655, 1992.
	C24	Buckholz, "Yeast systems for the expression of heterologous gene products," <i>Curr. Opin. Biotechnol.</i> , 4(5):538-542, 1993.
	C25	Buell <i>et al.</i> , "Optimizing the expression in <i>E. coli</i> of a synthetic gene encoding somatomedin-C (IGF-I)," <i>Nucl. Acids Res.</i> , 13(6), 1985.
	C26	Burks <i>et al.</i> , "In vitro Scanning Saturation Mutagenesis of an Antibody Binding Pocket," <i>Proc. Natl. Acad. Sci.</i> , 94:412-417, 1997.
	C27	Cabilly <i>et al.</i> , "Generation of antibody activity from immunoglobulin polypeptide chains produced in <i>E. Coli</i> ," <i>Proc. Natl. Acad. Sci. USA</i> , 81:3273-3277, 1984.
	C28	Caton and Koprowski, "Influenza virus hemagglutinin-specific antibodies isolated from a combinatorial expression library are closely related to the immune response of the donor," <i>Proc. Natl. Acad. Sci. USA</i> , 87:6450-6454, 1990.
	C29	Chang <i>et al.</i> , "Phenotypic expression in <i>E. coli</i> of a DNA sequence coding for mouse dihydrofolate reductase," <i>Nature</i> , 275:617-624, 1978.
PTD	C30	Chang <i>et al.</i> , "Membrane biogenesis: Cotranslational integration of the bacteriophage f1 coat protein into an <i>E. Coli</i> membrane fraction," <i>Proc. Natl. Sci. USA</i> , 76:1251-1255, 1979.

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PTD	C31	Charbit <i>et al.</i> , "Versatility of a vector for expressing foreign polypeptides at the surface of Gram-negative bacteria," <i>Gene</i> 70:181-189, 1988.
	C32	Charbit <i>et al.</i> , "Permissive sites and topology of an outer membrane protein with a reporter epitope," <i>J. Bact.</i> , 173(1):262-275, 1991.
	C33	Charles and Dougan, "Gene expression and the development of live enteric vaccines," <i>Trends in Biotechnology</i> , 8:117-121, 1990.
	C34	Chen <i>et al.</i> , "A quantitative immunoassay utilizing <i>E. coli</i> cells possessing surface-expressed single chain Fv molecules," <i>BioTech. Prog.</i> , 12:572-574, 1996.
	C35	Chiang <i>et al.</i> , "Direct cDNA cloning of the rearranged immunoglobulin variable region," <i>BioTechniques</i> , 7(4):360-366, 1989.
	C36	Chiswell and McCafferty, "Phage antibodies: will new 'coliclonal' antibodies replace monoclonal antibodies?", <i>Tibtech</i> , 10:80-84, 1992.
	C37	Clackson <i>et al.</i> , "Making antibody fragments using phage display libraries," <i>Nature</i> , 352:624-628, August 1991.
	C38	Colizzi <i>et al.</i> , "Analysis of Mycobacterium tuberculosis genome and production of a recombinant protein containing specific B and T cell antigenic determinants -- new approaches to second generation antituberculosis vaccines," <i>Z Erkr Atmungsorgane</i> , 172(1):40-52, 1989.
	C39	Cornelis <i>et al.</i> , "Development of new cloning vectors for the production of immunogenic outer membrane fusion proteins in <i>Escherichia coli</i> ," <i>Bio/Technology</i> , 14:203-208, 1996.
	C40	Cryz, "Live attenuated vaccines for human use," <i>Curr. Opin. BioTech.</i> , 3(3):298-302, 1992.
	C41	Danziger <i>et al.</i> , "Simultaneous gene amplification and gene detection using three PCR primers," <i>BioTechniques</i> , 14(3):370, 1993.
	C42	De Libero and Kaufmann, "Antigen-specific LYT-2 ⁺ cytolytic T lymphocytes from mice infected with the intracellular bacterium <i>Listeria Monocytogenes</i> ," <i>J. Immun.</i> , 137(8):2688-2694, 1986.
	C43	Denzin <i>et al.</i> , "Single-chain site-specific mutations of fluorescein-amino acid contact residues in high affinity monoclonal antibody 4-4-20," <i>J. Biol. Chem.</i> , 266(21):14095-14103, 1991.
PTD	C44	Derbyshire <i>et al.</i> , "A simple and efficient procedure for saturation mutagenesis using mixed oligodeoxynucleotides," <i>Gene</i> , 46:145-152, 1986.

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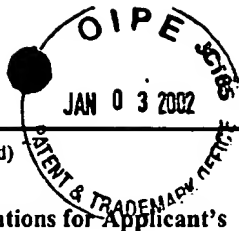
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PM	C45	Devlin <i>et al.</i> , "Random peptide libraries: A source of specific protein binding molecules," <i>Science</i> , 249:404-406, 1990.
	C46	Dougan <i>et al.</i> , "Live bacterial vaccines and their applications as carriers for foreign antigens," <i>Ad Vet Sci Compara Med</i> , 33:271-300, 1989.
	C47	Dunn, "Phage display of proteins," <i>Curr. Opin. Biotechnol.</i> , 7(5):547-553, 1996.
	C48	Eckart and Bussineaus, "Quality and authenticity of heterologous proteins synthesized in yeast," <i>Curr. Opin. BioTech.</i> , 7(5):525-530, 1996.
	C49	Ehrman <i>et al.</i> , "Genetic analysis of membrane protein topology by a sandwich gene fusion approach," <i>Proc Natl Acad Sci USA</i> , 87:7574-7578, 1990.
	C50	Filloux <i>et al.</i> , "Protein secretion in gram-negative bacteria: transport across the outer membrane involves common mechanisms in different bacteria," <i>EMBO J.</i> , 9(13):4323-4329, 1990.
	C51	Fischetti <i>et al.</i> , "Expression of foreign proteins on gram-positive commensal bacteria for mucosal vaccine delivery," <i>Curr. Opin. Biotechnol.</i> , 4(5):603-610, 1993.
	C52	Fischetti, "Gram-positive commensal bacteria deliver antigens to elicit mucosal and systemic immunity," <i>ASM News</i> 62:405-410, 1996.
	C53	Francisco and Georgiou, "The expression of recombinant proteins on the external surface of <i>Escherichia coli</i> . Biotechnological applications," <i>Ann. NY Acad. Sci.</i> , 745:372-382, 1994.
	C54	Francisco <i>et al.</i> , "Production and fluorescence-activated cell sorting of <i>Escherichia coli</i> expressing a functional antibody fragment on the external surface," <i>Proc. Natl. Acad. Sci. USA</i> , 90:10444-10448, 1993.
	C55	Francisco <i>et al.</i> , "Specific adhesion and hydrolysis of cellulose by intact <i>Escherichia coli</i> expressing surface anchored cellulase or cellulose binding domains," <i>Bio/Technology</i> , 11:491-495, 1993.
	C56	Francisco <i>et al.</i> , "Transport and anchoring of β -lactamase to the external surface of <i>Escherichia coli</i> , <i>Proc. Natl. Acad. Sci. USA</i> , 89:2713-2717, April 1992.
	C57	Freudl <i>et al.</i> , "The nature of information, required for export and sorting, present within the outer membrane protein OmpA of <i>Escherichia coli</i> K-12," <i>EMBO J.</i> , 4(13):3593-3598, 1985.
PM	C58	Freudl, "Insertion of peptides into cell-surface-exposed areas of the <i>Escherichia coli</i> OmpA protein does not interfere with export and membrane assembly," <i>Gene</i> , 82:229-236, 1989.

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PTD	C59	Fuchs <i>et al.</i> , "Targeting recombinant antibodies to the surface of <i>Escherichia coli</i> : fusion to a peptido-glycan-associated lipoprotein," <i>Bio/Technology</i> , 9:1369-1372, 1991.
	C60	Gellissen <i>et al.</i> , "Heterologous protein production in yeast," <i>Antonie Van Leeuwenhoek</i> , 62(102):79-93, 1992.
	C61	Georgiou <i>et al.</i> , "Folding and aggregation of β -lactamase: Analogies with the formation of inclusion bodies in <i>Escherichia coli</i> ," <i>Protein Science</i> , 3:1953-1960, 1994.
	C62	Georgiou <i>et al.</i> , "Display of heterologous proteins on the surface of microorganisms: from the screening of combinatorial libraries to live recombinant vaccines," <i>Nat. Biotechnol.</i> , 15(1):29-34, 1997.
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List of Patents and Publications for Applicant's INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicant Brent Iverson <i>et al.</i>	
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	C167	Short <i>et al.</i> , "Contribution of antibody heavy chain CDR1 to digoxin binding analyzed by random mutagenesis of Phage-displayed Fab 26-10," <i>J. Biol. Chem.</i> , 270(48):28541-28550, 1995.
	C168	Short <i>et al.</i> , "λ ZAP: a bacteriophage λ expression vector with <i>in vivo</i> excision properties, <i>Nucl. Acids Res.</i> , 16:7583-7600, 1988.
	C169	Siebenlist <i>et al.</i> , "E. coli RNA polymerase interacts homologously with two different promoters," <i>Cell</i> , 20:269-281, 1980.
	C170	Skerra and Plückthun, "Assembly of a functional immunoglobulin F _v fragment in <i>E. coli</i> , <i>Science</i> , 240:1038-1041, 1988.
	C171	Smiley and Benkovic, "Selection of catalytic antibodies for a biosynthetic reaction from a combinatorial cDNA library by complementation of an auxotrophic <i>Escherichia coli</i> : antibodies for orotate decarboxylation," <i>Proc. Nat'l. Acad. Sci.</i> , 91(18):8319-8323, 1994.
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	C176	Stemmer, "DNA shuffling by random fragmentation and reassembly: In vitro recombination for molecular evolution," <i>Proc. Nat'l Acad. Sci. USA</i> , 91:10747-10751, 1994.
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	C180	✓ Su <i>et al.</i> , "Construction of stable LamB-Shiga toxin B subunit hybrids: analysis of expression in <i>Salmonella typhimurium</i> aroA strains and stimulation of B subunit-specific mucosal and serum antibody response," <i>Infect. Immun.</i> , 60(8):3345-3359, 1992.
	C181	Sudberry, "The expression of recombinant proteins in yeasts," <i>Curr. Opin. Biotechnol.</i> , 7(5):517-524, 1996.
	C182	✓ Tawfik <i>et al.</i> , "catELISA: a facile general route to catalytic antibodies," <i>Proc. Nat'l. Acad. Sci. USA</i> , 90:373-377, 1993.
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	C188	Vershon <i>et al.</i> , "Mutagenesis of the arc repressor using synthetic primers with random nucleotide substitutions," <i>Protein Eng.</i> , 15:243-256, 1986.
	C189	Vieira and Messing, "The pUC plasmids, an M13mp7-derived system for insertion mutagenesis and sequencing with synthetic universal primers," <i>Gene</i> , 19:259-268, 1982.
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	C192	Ward <i>et al.</i> , "Binding activities of a repertoire of single immunoglobulin variable domains secreted from <i>E. coli</i> ," <i>Nature</i> , 341:544-546, 1989.
	C193	Waye <i>et al.</i> , "EcoK selection vectors for shotgun cloning into M13 and deletion mutagenesis," <i>Nucl. Acids Res.</i> , 13(23):8561-8571, 1985.
	C194	Wilcox and Studnicka, "Expression of foreign proteins in microorganisms," <i>Biotechnol. Appl. Biochem.</i> , 10(6):500-509, 1988.
	C195	Winter and Milstein, "Man-made antibodies," <i>Nature</i> , 349:293-299, 1991.
	C196	Wiseman, "The organization of production of genetically-engineered proteins in yeast," <i>Endeavour</i> , 16(4):190-193, 1992.
	C197	Wong <i>et al.</i> , " <i>Pseudomonas aeruginosa</i> outer membrane protein OprF as an expression vector for foreign epitopes: the effects of positioning and length on the antigenicity of the epitope," <i>Gene</i> , 158:55-60, 1995.
	C198	Wu and Wallace, "The ligation amplification reaction (LAR)-amplification of specific DNA sequences using sequential rounds of template-dependent ligation," <i>Genomics</i> , 4:560-569, 1989.
	C199	Yamaguchi <i>et al.</i> , "A single amino acid determinant of the membrane localization of lipoproteins in <i>E. coli</i> ," <i>Cell</i> , 53:423-432, 1988.
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	C201	Yarranton, "Mammalian recombinant proteins: vectors and expression systems," <i>Curr. Opin. Biotechnol.</i> , 1(2):133-140, 1990
	C202	You and Arnold, "Directed evolution of subtilisin E in <i>Bacillus subtilis</i> to enhance total activity in aqueous dimethylformamide," <i>Protein. Eng.</i> , 9:77-83, 1994.
	C203	Youderian <i>et al.</i> , "Changing the DNA-binding specificity of a repressor," <i>Cell</i> , 35(Pt2):777-783, 1983.
PTD	C204	International Search Report dated November 12, 1998.

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